

ABSTRACT OF THE DISCLOSURE

A three-dimensional image pickup apparatus, a three-dimensional display apparatus and a three-dimensional image pickup and display apparatus are disclosed by which high-definition three-dimensional display from a plurality of eye points of different directions can be achieved by a simple apparatus configuration. The incoming directions and the intensities of a plurality of lights incoming from different directions to a light reception section are coordinated with each other for individual pixels to form video signals. A light emission section emits lights based on a coordinated relationship between the outgoing directions and the intensities of lights to be emitted therefrom for the individual pixels. The light incoming directions and the light outgoing directions are time-divisionally selected by means of light path selection elements, and a plurality of pixels are formed to pick up and display images having a parallax.